

Claims

- [c1] An automotive sunvisor assembly, comprising:
a sunvisor; and
a sunvisor attachment coupled to said sunvisor, said sunvisor attachment comprising:
a body having at least one item retained therein and further including at least one connecting member integrally formed therein made from a first material; and
a cover including at least one connecting member integrally formed therein made from a second material having a different melting point from said first material, said at least one body connecting member cooperating with said at least one cover connecting member to couple said cover to said body, said cover being moveable between an open position, wherein said at least one item is uncovered, and a closed position, wherein said cover overlies said at least one item.
- [c2] The sunvisor assembly of claim 1, wherein said at least one body connecting member comprises at least one projecting portion extending therefrom, and wherein said at least one cover connecting member comprises at least one receiving portion which receives said at least

one projecting portion.

[c3] The sunvisor assembly of claim 2, wherein said at least one projecting portion defines a pin.

[c4] The sunvisor assembly of claim 2, wherein said at least one receiving portion defines a bore.

[c5] The sunvisor assembly of claim 1, wherein the at least one item includes a mirror and/or a light.

[c6] The sunvisor assembly of claim 1, wherein said at least one body connecting member includes a pair of spaced apart connecting members, each said pair of spaced apart connecting members having at least one projecting portion defining a pin having an enlarged distal end defining a circular portion, and wherein said at least one cover connecting member includes one connecting member, said cover connecting member including a pair of spaced apart receiving portions with each defining a bore having an enlarged receiving portion defining a circular recess, each said recess receiving one of said circular portions to couple said cover to said body.

[c7] The sunvisor assembly of claim 6 wherein the body further includes an opening and the at least one item includes a mirror being retained within the opening.

- [c8] The sunvisor assembly of claim 1, wherein said cover is pivotally movable between said open and closed position.
- [c9] The sunvisor assembly of claim 1, wherein said first material is selected from the group consisting of polyamide 12 and 20–30% glass filled polybutylene terephthalate and wherein said second material is selected from the group consisting of polypropylene, polyoxymethylene, and polyamide 6.
- [c10] The sunvisor assembly of claim 1, wherein said first material has a higher melting point than said second material.
- [c11] The sunvisor assembly of claim 1, wherein the sunvisor attachment further includes a hinge spring cooperating with said body and said cover to assist with movement of said cover from the open position to the closed position.
- [c12] A method of forming a sunvisor attachment in a two-shot molding operation, comprising:
molding a first member as one of a body and a cover having at least one connecting member by injecting a first curable material in a first shot of the molding operation;
forming a mold chamber about a portion of the at least

one connecting member; and
molding a second member as the other one of the body
and the cover having at least one connecting member by
injecting into the mold chamber a second curable mate-
rial in a second shot of the molding operation, the sec-
ond member being molded so that the at least one first
member connecting member and the at least one second
member connecting member are pivotally coupled to-
gether.

[c13] The method of claim 12, wherein molding the first mem-
ber comprises molding the body having the at least one
connecting member, and wherein molding the second
member comprises molding the cover having the at least
one connecting member.

[c14] The method of claim 13, wherein the at least one body
connecting member includes at least one projecting por-
tion extending therefrom, and wherein the at least one
cover connecting member includes at least one receiving
portion, the at least one receiving portion molding
around the at least one projecting portion so that the at
least one body connecting member and the at least one
cover connecting member are pivotally coupled together.

[c15] The method of claim 14, wherein the at least one pro-
jecting portion defines a pin.

- [c16] The method of claim 14, wherein the at least one receiving portion defines a bore.
- [c17] The method of claim 12, furthering including providing and placing, during the molding operation, at least one item within the body, the at least one item including a mirror and/or light.
- [c18] The method of claim 12, wherein molding the first member comprises molding the body having the at least one connecting member, the at least one body connecting member including a pair of spaced apart connecting members, each of the pair of spaced apart body connecting members having at least one projecting portion defining a pin having an enlarged distal end defining a circular portion, the body, after molding, including an opening adapted to retain a mirror, and wherein molding the second member comprises molding the cover having the at least one connecting member, the at least one cover connecting member including one connecting member, the cover connecting member including a pair of spaced apart receiving portions with each defining a bore having an enlarged receiving portion defining a circular recess, each recess molding around one of the circular portions to pivotally couple together the body and cover.

- [c19] The method of claim 18, further including providing and placing a mirror in the opening.
- [c20] The method of claim 12, wherein the first curable material has a higher melting point than the second curable material.
- [c21] The method of claim 12, wherein the first curable material is selected from the group consisting of polyamide 12 and 20–30% glass filled polybutylene terephthalate and wherein the second curable material is selected from the group consisting of polypropylene, polyoxymethylene, and polyamide.
- [c22] The method of claim 12, wherein the second member is molded at a position 180 degrees relative to the first member.
- [c23] The method of claim 12, wherein the molding operation is performed in a single mold assembly.